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File: USPT

Oct 30, 2001

US-PAT-NO: 6309879

DOCUMENT-IDENTIFIER: US 6309879 B1

TITLE: Human patched genes and proteins, and uses related thereto

DATE-ISSUED: October 30, 2001

US-CL-CURRENT: 435/325; 435/252.3, 435/254.2, 435/320.1, 435/348, 435/349, 530/350,

536/23.5

APPL-NO: 09/ 207857 [PALM] DATE FILED: December 8, 1998

PARENT-CASE:

RELATED APPLICATIONS The present application is a continuation-in-part of provisional application U.S. Ser. No. 60/067,940, filed Dec. 8, 1997, the specification of which is incorporated herein by reference. 40 259 10 By Low

1 of 1

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TITLE: Human patched genes and proteins, and uses related thereto

DATE-ISSUED: October 30, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Bumcrot; David H.

Belmont

MA.

US-CL-CURRENT: 435/325; 435/252.3, 435/254.2, 435/320.1, 435/348, 435/349, 530/350, 536/23.5

CLAIMS:

What is claimed is:

- 1. An isolated nucleic acid comprising a coding sequence for a human patched-2 (ptc-2) polypeptide at least 90% identical to SEQ ID No. 2, which ptc-2 polypeptide binds a naturally occurring hedgehog protein.
- 2. The nucleic acid of claim 1 wherein the polypeptide is at least 95% identical to SEQ ID No. 2.
- 3. The nucleic acid of claim 1 wherein the polypeptide is at least 98% identical to SEQ ID No. 2.
- 4. An expression vector comprising a nucleic acid of claim 1.
- 5. An isolated nucleic acid comprising a coding sequence for a polypeptide comprising a patched-2 (ptc-2) amino acid sequence that binds a naturally occurring hedgehog protein, which coding sequence hybridizes under stringent conditions including a wash step of 0.2.times.SSC at 50.degree. C. to the sequence of SEQ ID. No. 1.
- 6. An expression vector comprising a nucleic acid of claim 5.
- 7. A nucleic acid comprising (i) a coding sequence for a polypeptide comprising a patched-2 (ptc-2) amino acid sequence that binds a naturally occurring hedgehog polypeptide, which coding sequence hybridizes under stringent conditions including a wash step of 0.2.times.SSC at 50 .degree. C. to the sequence of SEQ ID. No. 1; and (ii) a heterologous transcriptional regulatory sequence operably linked thereto.
- 8. An expression vector comprising a nucleic acid of claim 7.
- 9. A cell transfected with the nucleic acid of claim 5 or 7 and expressing said polypeptide.
- 10. An oligonucleotide probe comprising a nucleotide sequence which hybridizes

under stringent conditions including a wash step of 0.2.times.SSC at 50.degree. C. to a naturally occurring human patched-2 (ptc-2) gene having the sequence of SEQ ID No. 1, but not to a naturally occurring human patched-1 (ptc-1) gene.

- 11. A nucleic acid comprising (i) a coding sequence for a human patched-2 (ptc-2) polypeptide at least 95% identical to SEQ ID No. 2, which ptc-2 polypeptide binds a naturally occurring hedgehog protein and (ii) a heterologous transcriptional regulatory sequence operably linked thereto.
- 12. A cell comprising the nucleic acid of claim 11 and expressing the ptc-2 polypeptide.
- 13. An expression vector comprising a nucleic acid of claim 11.

PALM INTRANET

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Time: 10:29:25

Application Number Information

Application Number: 60/067940

Assignments

Filing Date: 12/08/1997 Effective Date: 12/08/1997

Application Received: 12/08/1997

Patent Number:

Issue Date: 00/00/0000

Date of Abandonment: 00/00/0000

Attorney Docket Number: ONV-050.60

Status: 159 /PROVISIONAL APPLICATION EXPIRED

Confirmation Number: 1213

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Group Art Unit: 0000

Class/Subclass: /.

Lost Case: NO

Interference Number: Unmatched Petition: NO L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 09/21/2001

Title of Invention: HUMAN PATCHED GENES AND PROTEINS AND USES RELATED **THERETO**

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